

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A swing mechanism for a construction machine, said swing mechanism being provided with:

a swing frame,

an inner race having an internal gear on an inner circumferential portion thereof and mounted on a side of an undercarriage,

an outer race rotatably arranged surrounding said inner race and provided with said swing frame mounted thereon,

a pinion inserted through a pinion insertion hole formed in said swing frame and maintained in meshing engagement with said internal gear,

a pinion drive device for rotationally driving said pinion, and

a pin fit-in hole arranged in said swing frame such that a knock pin fixed on said outer race is fitted in said pin fit-in hole to position said swing frame, ~~characterized in that: wherein~~

a pin fit-in hole portion through which said pin fit-in hole is formed is arranged on said swing frame at a location in a vicinity of a place of meshing engagement between said pinion and said internal gear such that said pin fit-in

hole portion extends toward said pinion insertion hole, and said pin fit-in hole is located on a line that extends through a center of rotation of said outer race and a center of rotation of said pinion.

2. (Previously Amended) A swing mechanism according to claim 1, wherein:

another knock pin for positioning said pinion drive device is arranged between said swing frame and said pinion drive device, and

a center of said knock pin for positioning said swing frame, said knock pin being fitted in said pin fit-in hole, and a center of a knock pin for positioning said pinion drive device are each located on a line that extends through said center of rotation of said outer race and said center of rotation of said pinion.

3. (Original) A swing mechanism according to claim 2, wherein:
said pin fit-in hole is arranged in a center frame of said swing frame.

4. (Previously Amended) A swing mechanism according to claim 2, wherein a pin fit-in hole in which said another knock pin for positioning said pinion drive device is fitted is arranged through a flange portion of said pinion drive device and a bracket for mounting said pinion drive device.

5. (Withdrawn) A method for measuring a backlash of a swing mechanism for a construction machine, said swing mechanism being provided with a swing frame, an inner race having an internal gear on an inner circumferential portion thereof and mounted on a side of a base, an outer race rotatably arranged surrounding said inner race and provided with said swing frame mounted thereon, a pinion inserted through a pinion insertion hole formed in said swing frame and maintained in meshing engagement with said internal gear, a pinion drive device for rotationally driving said pinion, and a pin fit-in hole arranged in said swing frame such that a knock pin fixed on said outer race is fitted in said pin fit-in hole to position said swing frame, which comprises:

measuring a distance between a center of said knock pin for positioning said swing frame, said knock pin being fitted in said pin fit-in hole, and a center of a knock pin arranged between said swing frame and said pinion drive device to position said pinion drive device,

calculating, from the distance so measured, a distance between a center of rotation of said outer race and a center of rotation of said pinion, and

determining, from the distance so calculated, said backlash to be formed after assembly of said swing mechanism.

6. (Withdrawn) A method according to claim 5, further comprising determining, from the backlash so determined, whether or not the backlash after the assembly of said swing mechanism falls within a tolerance range.